BA 1502– BUSINESS STATISTICS
(Tuesday- Thursday, G110, 12.40-15.15)

Instructor:	Dr. Yelda Erden Topal
Office:	FEAS Building B, H103
Phone:	210 2014
E-mail:	yeldae@metu.edu.tr
Res. Assistant	TBA
Office Hours:	TBA
Course Web Page:	ODTUClass Course Page
Course Description:	

This course covers basic statistical concepts and methods for management decisions. Knowledge and proper usage of statistics are essential in all areas of business to reach informed decisions. The emphasis will be on interpretation of results rather than raw computations. However, computations will be overviewed to understand the results and identify the shortcomings of the method/data set used. Hence, managerial decisions can be made by using and understanding some basic statistical tools.

Course Student Learning Objectives: (CSLOs)

Upon successful completion of this course, students should be able to:
Course Specific Skills:
1. Understand the basic terms and concepts of statistics
2. Able to analyze data
3. Use statistics to solve managerial problems
Discipline Specific Skills:
4. Able to describe data
5. Able to analyze data
6. Able to evaluate analysis of data
Personal and Key Skills:
7. Improve analytical skills
8. Enhance computational skills
9. Gain comprehensive problem solving skills

Learning and Teaching Methods:

Weekly homework, quizzes, and two written exams

Required Reading:

Berenson, Mark. L., Levine, David M., Kreihbiel, Timothy C. (2023), *Basic Business Statistics, Concept and Applications*, Fifteenth Edition, Pearson. (*Ninth Edition is available in Muhan Soysal Library*)

Supplementary Reading:

Black, Ken (2019). Business Statistics: For Contemporary Decision Making. John Wiley & Sons

Assessment and Grading:				
Form of Assessment	% Contribution	Size of the assessment	CSLOs covered by the assessment	Feedback Method
Quizzes	20	In-class	1-6,8-9	Written feedback
Midterm Exam	30	In-class	1-6,8-9	Written feedback
Assignments	10	Bi-Weekly homework	1-6,8-9	Written feedback
Attendance	10	In-class	1-9	Written feedback
Final Exam	30	In-class	1-9	Written feedback

Course Policies:

HOMEWORK and QUIZES: The students complete the homework assignments and submit at deadlines as hand-written hardcopies. The week after the homework assignments, in the second part of the class, quizzes will be given for the covered chapters as given in the Course Schedule below.

STUDENT DISABILITIES: Any student, who, because of a disabling condition, may require special arrangements in order to meet course requirements, should contact the instructor as soon as possible. Students should present the appropriate documentation from the university's Disability Support Office (Engelsiz ODTÜ Birimi, ODTÜ Kütüphanesi, Solmaz İzdemir Salonu, Tel: 210.7196; engelsiz@metu.edu.tr) verifying their disability, and outlining the special arrangements required. Please note that no accommodations will be provided to the disabled students prior to the completion of this approved University process.

ACADEMIC DISHONESTY: The Department of Business Administration has no tolerance for acts of academic dishonesty. Such acts damage the reputation of METU, the department and the BA/MBA/MS degree and demean the honest efforts of the majority of the students. The minimum penalty for an act of academic dishonesty will be a zero for that assignment or exam.

CHEATING: All university, faculty/institute, and department principles on academic honesty will be strictly enforced. The usual consequence for academic dishonesty is failure of the course and referral of the case to the Dean of the Faculty/Institute for additional disciplinary action. Examinations are individual and are to be completed without outside assistance of any sort. Persons observed cheating during examinations will receive a failing grade in the course. Homework assignments are individual, unless otherwise specified by the instructor, and are to be completed without outside assistance of any sort, as well. Persons observed cheating in their homework assignments will receive a score of zero for the portion of the semester grade that is allocated to such assignments.

PLAGIARISM: The instructor assumes that students will do their own work. By placing their names on assignments (individual or team), students are affirming that the contents are their original work. Any previous work available from files or past students, as well as materials available on the internet may be used only as a suggestive model. Violation of this provision will be considered as unethical behavior, subject to disciplinary action. If you have any doubt about the use of a specific material, see the instructor ahead of time. Any material used from outside sources should be referenced appropriately.

<div align="center">

METU HONOR CODE

</div>

Every member of METU community adopts the following honor code as one of the core principles of academic life and strives to develop an academic environment where continuous adherence to this code is promoted.

"The members of the METU community are reliable, responsible and honorable people who embrace only the success and recognition they deserve, and act with integrity in their use, evaluation and presentation of facts, data and documents."

The following table gives the tentative schedule for the semester. The lectures will stress the most important and/or most difficult material. Appendices are required only if they are assigned. The students are required to read the chapters and appendices before they are covered in class.

M	Day	Topic	Reading/ Assignment	CSLO
Tentative Course Schedule				
PART 1: Sustainable Transition Management				
Feb. (W1)	17-19	Introduction to Statistics in Business	Chp. 0: Introduction Chp. 1: Defining and Collecting Data	1-15
Feb. (W2)	24-26	Visualization of the Data: Charts and Graphs	Chp. 2: Organizing and Visualizing the Data & Tabular and Visual Summarization of Variables HW 1 (Chp. 0-2)	1-15
Mar. (W3)	3-5	Descriptive Statistics	Chp. 3: Numerical Descriptive Measures **Quiz 1** (Chp. 0-3)	1-15
Mar. (W4)	10-12	Probability	Chp. 4: Basic Probability HW 2 (Chp 4)	1-15
Mar. (W5)	17-19	Distributions and Sampling	Chp 5: Discrete Probability Distributions **Quiz 2** (Chp 4-5)	1-15
Mar. (W6)	24-26		Chp 6: The Normal Distribution and Other Continuous Distributions HW 3 (Chp 6)	1-15
M-A (W7)	31-2		Chp 7: Sampling and Sampling Distributions **Quiz 3** (Chp 6-7)	1-15
Apr (W8)	7-9	MIDTERM..April 9, 2026 (Time TBA) - Chapters 1-7		
Apr (W9)	14-16	Making Inferences About Population Parameters	Chp 8: Confidence Interval Estimation HW 4 (Chp 8)	1-15
Apr (W10)	21-23		Chp 9: Fundamentals of Hypothesis Testing: One-Sample Tests **Quiz 4** (Chp 8-9)	1-15
Apr (W11)	28-30		Chp 10: Two-Sample Tests HW 5 (Chp 10)	1-15
May (W12)	5-7		Chp 11: Analysis of Variance **Quiz 5** (Chp 10-11)	1-15
May (W13)	12-14	Regression, Forecasting and Quality: Relationships, Prediction and Process Improvement	Chp 13: Simple Linear Regression	1-15
May (W14)	19-21		Chp 14: Introduction to Multiple Regression HW 6 (Chp 13-14)	1-15
May (W15)	26-30		Religious Holiday	
June (W16)	2-4		Review and **Quiz 6** (Chp 13-14)	1-15
TBA	TBA	FINAL.. June xx, 2026 (Time TBA) - Chapters 8-14		